

Optix® CA-81

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

Message:

CA-81 clear is general-purpose polymer designated for injection molding and extrusions. This polymer is lubricated offers highest molecular weight. Excellent performance and processability. Basically designed for extrusion, as well as injection molding applications. The ideal resin for extruded sheet production. Easy to process with crystal clear appearance and no odor. Excellent in blending with other resins as well as colors.

General Information			
UL YellowCard	E167330-225045	E167330-225046	E167330-320103
Additive	Lubricant		
Features	General Purpose		
	Good Processing Stability		
	High Molecular Weight		
	Low to No Odor		
	Lubricated		
Uses	Blending		
	General Purpose		
	Sheet		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength (Yield)	68.9	MPa	ASTM D638
Tensile Elongation (Yield)	4.6	%	ASTM D638
Flexural Strength	111	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.6	°C	ASTM D1003
Vicat Softening Temperature	107	°C	ASTM D1525
RTI Elec	90.0	°C	UL 746
RTI Imp	90.0	°C	UL 746

RTI Str	90.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	ASTM D1003

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